

What is claimed is:

1. An apparatus adapted to perform a method for recording and reproducing a digital signal in a track on a recording medium for reproduction at normal and trick play speeds, said method comprising the steps of:
- a) processing said digital signal to form first and second record signals;
 - b) recording said first record signal in a first part of said track,
 - c) recording said second record signal in a second part of said track smaller than and separate from said first part of said track; and,
 - d) reproducing said first and second record signals from said first and second parts of said track.
2. The apparatus of claim 1, further comprises a step of:
- e) decoding said second record signal for display during operation at a trick play speed..
3. The apparatus of claim 1, further comprises a step of:
- f) decoding said second record signal for display during operation at a trick play speed..
4. The apparatus of claim 1, wherein said step a) further comprises a step of:
- processing an MPEG encoded signal to form said first record signal for reproduction at normal speed and said second record signal for reproduction at said trick play speed.
5. The apparatus of claim 1, further comprising the step of:
- processing said digital representative signal to form a trick play signal for recording as said second record signal.
6. The apparatus of claim 1, further comprising the step of:
- processing said digital representative signal to form a replay speed specific trick play signal for recording.
7. The apparatus of claim 1, further comprising the step of:
- multiplexing said first and second record signals to form a signal for recording in said first part of said helically scanned track.

1 8. An apparatus adapted to perform a method for recording and
2 reproducing an MPEG encoded signal in track on a recording medium for
3 reproduction at normal and trick play speeds, said method comprising the steps
4 of:

5 a) processing said MPEG encoded signal to form first and second
6 record signals;

7 b) multiplexing said first and second record signals to form a signal
8 for recording in a first part of said track; and,

9 c) recording at least one of a speed specific trick play signal and an
10 ATV signal in a second part of said track separate from said first part of said
11 track.

1 9. The apparatus of claim 8, further comprises a step of:
2 reproducing said recorded signals from said first part of said track,
3 said first record signal for use at normal play speed and said second record signal
4 for use at trick play speed.

1 10. The apparatus of claim 8, further comprises a step of:
2 reproducing said recorded signals from said second part of said
3 track, said speed specific trick play speed for trick play operation and said ATV
4 signal for ATV signal display.

1 11. The apparatus of claim 8, wherein signals recorded in said first part
2 of said track represent one of an MPEG signal and a digitally encoded video
3 signal.

1 12. The apparatus of claim 8, wherein signals recorded in said second
2 part of said track represent one of a trick play signal and a digitally encoded
3 audio signal.